

2018 Winter Wheat - Recrop
Dickinson, ND

Variety	Winter Survival	Heading Date	Seeds		Plant Height	Test Weight	Protein	----- Grain Yield-----			Average Yield			
			per Pound	in				lbs/bu	%	2016	2017	2018	2	3
													Year	Year
		from 1/1					----bu/ac----			bu/ac	bu/ac			
AAC Goldrush	100	162	13,871	28	61.4	13.9	--	--	89.9	--	--			
AAC Wildfire	100	163	12,251	30	61.3	13.4	--	--	92.8	--	--			
AC Broadview	100	161	13,960	26	61.3	12.7	37.2	54.3	89.7	72.0	60.4			
AC Emerson	100	161	15,384	27	61.4	14.6	31.7	52.5	83.1	67.8	55.8			
AC Gateway	100	160	13,207	25	62.3	13.9	32.0	48.3	85.8	67.0	55.3			
Accipiter	100	162	15,804	27	61.6	13.2	37.8	53.8	91.2	72.5	60.9			
CDC Chase	100	160	13,810	28	62.3	13.7	35.1	56.4	85.5	70.9	59.0			
Decade	100	160	13,288	25	61.4	14.6	34.0	59.1	85.1	72.1	59.4			
Ideal	100	160	12,989	25	62.8	13.2	40.3	52.1	90.6	71.3	61.0			
Jerry	100	160	11,995	29	61.1	13.7	28.9	58.4	84.6	71.5	57.3			
Keldin	100	162	10,962	26	61.5	13.7	--	59.9	99.0	79.5	--			
Loma	100	162	16,334	26	58.3	13.5	31.6	45.2	80.2	62.7	52.3			
Lyman	100	159	12,467	27	61.4	14.5	35.6	54.7	80.7	67.7	57.0			
Moats	100	161	13,650	29	62.4	13.3	31.8	57.6	91.5	74.6	60.3			
Northern	100	162	14,005	27	60.8	13.2	36.5	51.5	85.2	68.4	57.7			
Oahe	100	160	12,627	26	60.5	13.8	--	54.5	74.7	64.6	--			
Overland	100	158	13,445	27	61.0	14.3	31.7	58.2	75.3	66.8	55.1			
Overland-FHB1	100	158	13,705	26	60.6	14.6	--	55.8	71.0	63.4	--			
Peregrine	100	161	13,817	32	61.9	12.6	37.9	58.6	90.6	74.6	62.4			
Redfield	100	159	12,186	25	62.0	14.2	33.9	53.3	86.4	69.9	57.9			
SY Monument	100	158	12,990	22	59.8	14.1	48.7	62.0	76.2	69.1	62.3			
SY Sunrise	100	158	13,751	20	60.8	13.6	38.7	60.2	64.1	62.1	54.3			
SY Wolf	100	159	14,003	25	59.0	14.5	44.7	57.9	80.5	69.2	61.0			
Thompson	100	160	15,261	27	60.6	14.0	--	--	84.4	--	--			
WB Matlock	100	161	13,309	27	61.1	14.7	40.2	60.9	82.9	71.9	61.3			
WB4462	100	156	10,774	24	61.8	13.5	38.6	56.2	68.7	62.4	54.5			
Trial Mean	100	160	13,443	26	61.1	13.8	34.4	55.2	83.3	--	--			
CV %	0	0.6	6.0	5.1	1.6	3.4	16.5	9.0	8.8	--	--			
LSD 0.05	0	1	1,140	2	1.4	0.8	9.3	7.0	10.3	--	--			
LSD 0.10	0	1	953	2	1.2	0.6	7.7	5.9	8.6	--	--			

Planting Date: September 20, 2017

Harvest Date: August 2, 2018

Previous Crop: Cover Crop

Seeding Rate: 1 million live seeds/ac

2018 Oat - Recrop**Dickinson, ND**

	Days	Seeds			----- Grain Yield-----			Average Yield	
	to	per	Plant	Test				2	3
Variety	Head	Pound	Height	Weight	2016	2017	2018	Year	Year
			in	lbs/bu	-----bu/ac-----			----bu/ac----	
AC Pinnacle	61	14,105	33	35.6	150.3	83.4	116.2	99.8	116.6
Beach	59	17,026	33	37.1	130.9	70.3	83.5	76.9	94.9
CDC Dancer	58	15,339	33	37.0	135.3	74.4	95.3	84.8	101.6
CDC Minstrel	60	14,524	32	34.5	133.9	70.2	106.0	88.1	103.4
Cs Camden	59	14,365	33	33.6	--	72.4	111.4	91.9	--
Deon	59	13,986	33	36.8	126.9	76.1	95.5	85.8	99.5
Hayden	58	13,696	33	39.1	140.7	80.9	117.4	99.2	113.0
HiFi	58	14,833	35	37.9	123.3	69.7	109.4	89.5	100.8
Hystest	58	13,868	37	39.9	108.3	66.0	101.6	83.8	92.0
Jury	58	15,633	37	36.9	111.2	73.2	95.2	84.2	93.2
Killdeer	58	15,866	29	35.9	125.3	81.8	109.3	95.5	105.5
Leggett	60	14,385	32	36.4	133.4	70.9	95.4	83.2	99.9
Newburg	57	15,580	36	34.9	115.9	73.2	82.1	77.6	90.4
Otana	59	16,380	36	35.0	126.1	76.5	97.7	87.1	100.1
Paul*	60	17,060	33	40.9	91.8	43.3	82.2	62.8	72.5
Rockford	59	16,522	32	38.5	133.2	71.2	99.1	85.1	101.2
Souris	58	15,776	31	36.6	111.5	78.2	94.5	86.3	94.7
Stallion	58	17,635	31	33.5	118.4	83.2	103.6	93.4	101.7
Trial Mean	58	14,937	34	36.6	122.8	72.9	100.7	--	--
CV %	1.1	5.1	7.9	2.5	9.0	9.6	13.7	--	--
LSD 0.05	1	1,077	4	1.3	15.5	9.8	19.3	--	--
LSD 0.10	1	901	3	1.1	12.9	8.2	16.1	--	--

Planting Date: May 3, 2018

Harvest Date: August 7, 2018

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Previous Crop: Cover Crop

Seeding Rate: 1 million live seeds/ac

Trial receive hail at @ 5 leaf stage

2018 Barley - Recrop**Dickinson, ND**

	Days	Seeds					----- Grain Yield-----			Average Yield	
	to	per	Plant	Test		%				2	3
Variety	Head	Pound	Height	Weight	Protein	Plump	2016	2017	2018	Year	Year
			in	lbs/bu	%	>6/64	-----bu/ac-----			----bu/ac----	
<i>Six Row</i>											
Celebration	62	11,315	30	52.0	16.3	92.1	74.3	49.2	119.9	84.5	81.1
Innovation	59	10,400	30	52.5	14.3	94.0	77.8	50.0	127.1	88.6	85.0
Lacey	60	10,663	29	52.5	15.0	93.3	75.2	45.6	126.3	85.9	82.3
Quest	61	11,315	31	52.0	13.7	87.5	74.5	47.3	124.0	85.7	82.0
Stellar-ND	60	10,028	30	51.6	13.8	95.1	75.2	46.7	137.9	92.3	86.6
Tradition	61	10,408	30	53.3	14.6	93.8	69.5	45.6	124.9	85.3	80.0
<i>Two Row</i>											
AAC Synergy	62	8,949	30	52.8	13.9	95.5	90.3	47.4	141.3	94.3	93.0
ABI Balster	62	9,826	29	52.0	14.4	91.1	92.4	47.8	134.6	91.2	91.6
ABI Growler	63	9,662	29	50.5	14.6	92.0	86.9	46.3	132.7	89.5	88.6
ND Genesis	57	8,987	31	51.3	12.5	93.6	88.7	49.3	134.4	91.8	90.8
Conlon	56	9,124	30	53.4	14.3	96.0	54.2	45.8	79.9	62.8	59.9
Explorer	60	8,804	25	52.9	14.1	94.9	--	54.1	134.5	94.3	--
LCS Genie	64	9,647	26	51.4	13.7	92.1	97.1	46.2	128.2	87.2	90.5
Pinnacle	60	8,580	31	53.0	13.6	96.4	80.3	45.7	133.9	89.8	86.6
Sirish	63	9,541	25	52.3	14.2	95.7	91.4	45.3	132.6	88.9	89.7
Trial Mean	60	9,769	29	52.1	14.0	94	81.3	48.8	127.8	--	--
CV %	1.6	4.4	4.0	1.4	3.9	1.4	9.2	9.7	7.2	--	--
LSD 0.05	1	613	2	1.0	0.9	2	10.6	6.7	13.0	--	--
LSD 0.10	1	512	1	0.8	0.7	2	8.8	5.6	10.8	--	--

Planting Date: April 27, 2018

Harvest Date: August 9, 2018

Previous Crop: Cover Crop

Seeding Rate: 1.2 million live seeds/ac

Grain protein percentages reported on a 0% moisture basis

2018 Glen Ullin Barley - Recrop
Dickinson, ND

Variety	Seeds	Test	%	Protein	-----Grain Yield-----			Average Yield	
	per	Weight	Plump		2016	2017	2018	2	3
	Pound	lbs/bu	>6/64		%	-----bu/ac-----			Year
Six Row									
AAC Synergy	7,679	50.4	98	16.5	--	--	132.4	--	--
Innovation	10,565	51.5	93	15.7	60.7	63.3	111.4	87.4	78.5
Tradition	10,446	51.5	93	15.7	--	65.6	106.3	85.9	--
Two Row									
ND Genesis	8,272	50.3	97	15.0	72.5	65.8	115.8	90.8	84.7
Pinnacle	7,892	51.0	98	16.2	60.8	58.5	117.6	88.1	79.0
Sirish	8,594	50.6	97	15.8	--	67.3	123.6	95.5	--
Trial Mean	8,908	50.9	96	15.8	61.2	64.6	117.9	--	--
CV %	5.6	1.5	0.8	2.6	6.3	11.3	9.2	--	--
LSD 0.05	755	1.2	1	0.7	5.8	NS	16.3	--	--
LSD 0.10	621	1.0	1	0.6	4.7	NS	13.4	--	--

Planting Date: May 14, 2018

Harvest Date: August 16, 2018

Previous Crop: S Wheat

Seeding Rate: 1.2 million live seeds/ac

Grain protein percentages reported on a 0% moisture basis

2018 Durum - Recrop
Dickinson, ND

Variety	Days to Head	Seeds per Pound	Plant Height	Test Weight	Protein	----- Grain Yield-----			Average Yield	
						2016	2017	2018	2 Year	3 Year
			in	lbs/bu	%	-----bu/ac-----			----bu/ac----	
AC Commander	59	10,416	29	60.8	15.3	47.6	31.1	48.1	39.6	42.3
Alkabo	59	10,477	31	61.6	14.7	53.1	32.0	63.2	47.6	49.4
Alzada	55	10,784	25	59.0	15.0	39.9	35.0	38.4	36.7	37.8
Ben	59	9,636	34	61.4	15.4	43.7	33.0	56.5	44.7	44.4
CDC Verona	63	10,046	36	61.1	15.1	47.7	29.8	64.1	47.0	47.2
Carpio	61	10,618	34	61.5	14.3	52.5	33.2	57.9	45.5	47.8
Divide	60	9,966	34	61.5	15.1	54.2	33.2	62.4	47.8	49.9
Grenora	58	10,770	31	60.4	15.2	51.5	35.2	55.9	45.5	47.5
Joppa	59	10,526	35	62.0	14.2	56.7	34.0	65.8	49.9	52.2
Lebsock	58	11,070	33	62.4	14.5	52.8	31.8	59.1	45.5	47.9
Maier	60	11,292	30	61.3	15.5	45.1	32.4	57.5	44.9	45.0
Mountrail	60	11,003	35	61.6	14.6	50.3	35.9	64.8	50.3	50.3
ND Grano	61	10,607	33	62.1	14.8	48.5	32.9	64.5	48.7	48.6
ND Riveland	60	10,179	35	61.0	14.6	52.1	32.4	60.1	46.3	48.2
Pierce	58	11,197	34	62.5	14.4	48.2	32.5	56.8	44.7	45.8
Rugby	60	11,254	39	61.6	14.8	45.8	31.8	63.2	47.5	46.9
Strongfield	61	10,784	34	61.1	15.8	51.2	33.8	60.3	47.1	48.5
Tioga	60	10,026	35	61.8	14.5	51.5	32.8	63.3	48.1	49.2
VT Peak	59	10,217	34	62.5	15.0	51.7	30.0	60.3	45.2	47.3
Trial Mean	60	10,418	34	61.7	14.8	50.2	31.9	61.6	--	--
CV %	1.4	8.6	5.4	0.7	3.2	9.6	9.9	9.0	--	--
LSD 0.05	1	1,252	3	0.6	0.8	6.8	4.4	7.8	--	--
LSD 0.10	1	1,048	2	0.5	0.7	5.7	3.7	6.5	--	--

Planting Date: May 1, 2018

Harvest Date: August 20, 2018

Previous Crop: Cover Crop

Seeding Rate: 1.2 million live seeds/ac

2018 Field Pea - Recrop
Dickinson, ND

Variety	Days to Flower	Days to Mature	1000 Seed Weight	Seeds per Pound	Plant Height	Test Weight	Protein	--Grain Yield--			Average Yield	
			gm		in	lbs/bu	%	2016	2017	2018*	2 Year	3 Year
								-----bu/ac-----			--bu/ac--	
Yellow Types												
Agassiz	53	86	223	2,038	23	62.6	30.1	31.2	21.6	23.1	22.4	25.3
Bridger	48	86	221	2,052	21	63.2	28.2	--	--	23.1	--	--
DS Admiral	52	85	258	1,765	22	62.8	28.2	29.7	23.1	25.7	24.4	26.2
Durwood	53	89	271	1,697	28	64.3	27.7	--	22.8	25.5	24.1	--
Hyline	51	86	271	1,676	22	63.1	28.6	--	--	25.3	--	--
Navarro	49	86	247	1,844	23	63.0	27.8	--	--	23.4	--	--
Nette 2010	48	83	218	2,080	21	63.3	29.6	27.9	25.4	21.7	23.6	25.0
Salamanca	50	87	281	1,613	23	62.1	29.4	--	--	26.5	--	--
Spider	51	87	231	1,969	23	63.0	29.2	22.6	18.5	28.8	23.6	23.3
Green Types												
Arcadia	49	82	199	2,318	18	62.2	29.1	30.3	25.8	27.9	26.8	28.0
CDC Striker	49	81	209	2,178	20	62.6	28.8	28.4	24.8	25.7	25.3	26.3
Cruiser	48	84	203	2,233	20	61.4	30.5	26.7	22.7	21.0	21.8	23.4
Trial Mean	50	85	236	1,955	22	62.8	28.9	28.1	22.8	24.8	--	--
CV %	1.2	2.0	7.6	7.6	10.0	1.6	2.5	7.4	8.5	17.2	--	--
LSD 0.05	1	3	30	253	4	1.7	1.2	3.1	2.8	NS	--	--
LSD 0.10	1	2	25	210	3	1.4	1.0	2.6	2.3	NS	--	--

Planting Date: May 3, 2018

Harvest Date: August 8, 2018

Previous Crop: Cover Crop

Seeding Rate: 325,000 live seeds/ac

*Trial Received Hail June 16

Grain protein percentages reported on 0% moisture basis